

SIGNAL DRIVING SYSTEM

ABSTRACT OF THE DISCLOSURE

A signal driving system generates an output swinging between a first power supply (e.g., about 1.2 Volts), powering first and second drivers, and a second power supply (e.g., about 3.3 Volts), powering a first current mirror. The second power supply is generated external to the signal driving system and is used to allow for a desired common-mode differential output signal range. However, the second power supply produces voltage at a level above a rating of the devices in the signal driving system. Therefore, protection devices are used to protect the elements of the signal driving system from the second power supply. Accordingly, through use of the signal driving system of the present invention, a high voltage current mode driver can operate in a low voltage process without damaging the devices in the signal driving system.